Xiao Yang

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EDUCATION

Georgia Institute of Technology | GPA: 3.58   Jan. 2021 – Dec. 2023
B.S. Mathematics
- **Relevant Coursework**: Applied Combinatorics, Probability Theory, Complex Analysis, Linear Algebra, Numerical Analysis, Number Theory, Partial Diff Equations.

B.S. Computer Science – Concentration: Intelligence & People
- **Relevant Coursework**: Data Structures and Algorithms, Objects and Design, Object Oriented Programming, Design and Algorithm, Database Systems, Machine Learning, Artificial Intel, Design Analysis and Algorithms

EXPERIENCE

Amazon   May. 2023 – Aug. 2023
Software Engineer Intern
- Designed and implemented an algorithm to reduce duplicate garbage within the Storage Gateway volume system.
- Reduced duplicates by 98% and saved about $320,000 per year from reducing number of hosts needed.
- Added metrics and alarms to reduce system outage and downtime using AWS CloudWatch.
- Resolved the issue of garbage system sending metrics to the wrong region by resetting the TSD destination.

Micro Connect   Jan. 2023 – May. 2023
Software Engineer Intern
- Researched and presented solutions on potential blockchain technologies to track money flow from investors to small businesses.
- Built a Hyperledger Fabric test network on multiple hosts using Swarm with CouchDB capability to store the blockchain activities.
- Used as a template for future blockchain deployment on Kubernetes cluster.

OIT of Georgia Tech   May. 2021 – Jan. 2023
Computing Support Assistant
- Assisted ~50 GT staff over the phone and in person weekly through remote support software.
- Prepared and imaged equipment for the full-time GT employees.

Comparative Neuromechanics Lab of Georgia Tech   Jan. 2021 – Jan. 2023
Undergraduate Research Assistant
- Collected and analyzed data using 3D motion capture software and reconstruct/derive biological segments.
- Reviewed and commented on journals, as well as assisting in the administration of a national scientific conference (American Society of Biomechanics) in year 2021.

PROJECTS

The Automated External Defibrillator (AED) Locator Mobile Application   Aug. 2023 – Present
- Worked with a cardiologist at Tanner Health System to develop a full-stack mobile application which allows user to rapidly locate the nearest AED and correctly perform AED/CPR through the training information in the app.
- Used React Native as frontend and MongoDB to store AED map and monitor user accounts and activities.

Physics IQ Project for Comparative Neuromechanics Lab at GT   Jun. 2022 – Dec. 2022
- Designed a solution to determine the difference between athletes' and non-athletes' ability to predict projectile motion by developing a projectile prediction simulation using Unity with C#.
- Calculated the timing prediction errors in combination with the spatial prediction error and other performance matrices to determine a person's reflexive ability.

Vehicle Plate Recognition System based on Deep Learning Algorithm   Jun. 2022 – Aug. 2022
- Used DBSCAN to isolate the license plate area of each car image from a large car image database containing difference sizes and angles.
- Used convolutional neural network with 6 layers to train the model and identify characters from the license plate.

Skills

Java, Python, C#, C, MySQL, docker, Linux, Unity, Vicon, Brazil, Git, Mockito, CouchDB, MongoDB, AWS, React.